

Claims

1. An electric motor, for powering downhole tools, comprising a stator and a rotor connectable to a rotatable device, a permanent magnet and a series of coiled windings or laminations having a connection to a DC supply, the permanent magnet and the laminations being arranged annularly with respect to each other, characterised in that the laminations and coil windings are potted in a potting material impervious to wellbore fluids.
- 10 2. An electric motor according to claim 1, wherein the potting material is introduced under a vacuum.
- 15 3. An electric motor according to any previous claim wherein there is included a motor housing which confines the potting material.
4. An electric motor according to any previous claim wherein the wiring is provided that exits from the potted material through a metal clad tube, onto which an O ring seal can be used.
- 20 5. An electric motor assembly comprising two or more electric motors according to any previous claim secured in series.
- 25 6. An electric motor assembly according to claim 6, wherein the motor electric motors are secured together before the potting material is introduced.